



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Date: April 1, 2004

MICHAEL JOHN CULLEN and  
RALPH WAYNE CUNNINGHAM

Serial No. : 09/669,443 Group Art Unit: 3681

Filed : September 26, 2000 Examiner: Roger L. Pang

For : VEHICLE TRAJECTORY CONTROL SYSTEM

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

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**GROUP 3600**

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §§ 1.56, 1.97, and 1.98**

Applicants are submitting this Information Disclosure Statement pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98 to disclose to the U.S. Patent and Trademark Office the patents, publications, applications, and/or other references listed on the enclosed, completed PTO-1449 form(s). The filing of this Information Disclosure Statement should not be construed as a representation that a search has been made or as an admission that the listed references are prior art for this application. Applicants respectfully request that the listed references be expressly considered during prosecution of the application, and that the references be made of record therein and appear among the "references cited" on any patents issuing therefrom.

**CONTENT OF DISCLOSURE**

This Information Disclosure Statement includes (1) 1 page of PTO-1449 form, and (2) a legible copy of each reference listed on the form.

### **FOREIGN-LANGUAGE REFERENCES**

A concise explanation of the relevance of each listed reference not in the English language follows:

Japanese Patent No. 8270774: This patent purports to disclose to effectively reduce tooth hammering noise generated by the relative rotation difference between the engine rotating speed and the turbine rotating speed in a vehicle mounted with an automatic transmission formed by combining a torque converter to which engine output is inputted, with speed change mechanism for speed-changing the output rotation of the converter to output it.

The output of an engine 10 constituting the power plant 1 of a vehicle is transmitted to driving wheels through an automatic transmission 20. An ISC valve 14 is provided by passing a throttle valve 12 provided at the intake passage 11 of the engine 10. At the time of back-out speed change performed in association with the release of an accelerator pedal, for instance, the turbine rotating speed is set as the target rotation of idling engine rotating speed control using the ISC valve 14.

### **TIMING OF DISCLOSURE / STATEMENT / FEE INFORMATION**

This Information Disclosure Statement is being filed more than three months after the filing date of a national application or the date of entry of the national stage in an international application and after the mailing of a first Office action but, to the best of the undersigned's knowledge, before the mailing date of any of a final action under 37 C.F.R. § 1.113, a notice of allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution in the application. In accordance with 37 C.F.R. § 1.97(e)(1), the undersigned states that each item of information contained in this Information Disclosure Statement was first cited in a communication from a



foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. Therefore, in accordance with 37 C.F.R. § 1.97(c)(1), no fee is required.

Please charge any cost incurred in the filing of this Information Disclosure Statement, along with any other costs, to Deposit Account No. 06-1510. If there are insufficient funds in this account, please charge the fees to Deposit Account No. 06-1505. A duplicate copy of this sheet is enclosed.

Please contact the undersigned with any questions or comments regarding this Information Disclosure Statement.

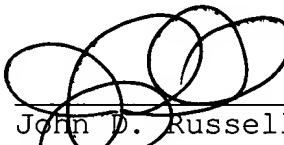
CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, on April 1, 2004.

  
Lauren Barberena

Respectfully submitted,

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Date: March 30, 2004

MICHAEL JOHN CULLEN and  
RALPH WAYNE CUNNINGHAM

Serial No. : 09/669,443 Group Art Unit: 3681  
Filed : September 26, 2000 Examiner: Roger L. Pang  
For : VEHICLE TRAJECTORY CONTROL SYSTEM

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P.O. Box 1450  
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## CONTENT OF DISCLOSURE

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## FOREIGN-LANGUAGE REFERENCES

A concise explanation of the relevance of each listed reference not in the English language follows:

Japan Patent No. 03 288,056: This patent purports to disclose to prevent generation of judder by delaying lowering of corresponding line pressure at the time of detecting any sudden closing state of an accelerator by an accelerator sudden closing state detecting means, thereby preventing the clutch transfer capacity from becoming lower than engine torque.

A control unit 43 reads throttle opening TH from a sensor 44, computes the rate of change DELTATH to time, and makes a comparison on whether the rate of change is smaller than the limit rate of change  $-\alpha$ . In the case of  $DELTATH < -\alpha$ , this means the sudden closing time of a throttle valve, so that the control unit 43 computes the converter speed ratio gamma of a torque converter 3; and when the converter speed ratio gamma is smaller than the stall limit value beta, this means the stalling state, so that the control unit 43 performs line pressure lowering delay control for delaying the lowering of line pressure in order to prevent generation of judder.

## TIMING OF DISCLOSURE / STATEMENT / FEE INFORMATION

This Information Disclosure Statement is being filed more than three months after the filing date of a national application or the date of entry of the national stage in an international application and after the mailing of a first Office action but, to the best of the undersigned's knowledge, before the mailing date of any of a final action under 37 C.F.R. § 1.113, a notice of allowance under 37 C.F.R. § 1.311, or an



ction that otherwise closes prosecution in the application. In accordance with 37 C.F.R. § 1.97(e)(2), the undersigned states that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. Therefore, in accordance with 37 C.F.R. §§ 1.97(c)(1), no fee is required.

Please contact the undersigned with any questions or comments regarding this Information Disclosure Statement.

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Lauren Barberena

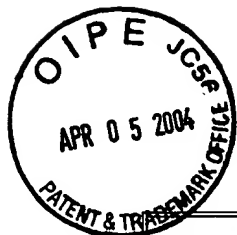
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SHEET 1 OF 1

FORM PTO-1449			DOCKET NUMBER FGT 321		APPLICATION NUMBER 09/669,443	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION			APPLICANT(S) Michael Cullen et al.			
			FILING DATE September 26, 2000		GROUP ART UNIT 3681	
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
	4,481,844	11-13-84	Ironside et al			
	5,113,721	5-19-92	Polly			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
	3 288056	12-18-91	JP			Abstract only
	2 299 144	9-25-96	GB			
	2 313 425	11-26-97	GB			
	2 318 556	4-29-98	GB			
OTHER DOCUMENTS						
DATE CONSIDERED						